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SEARCH REQUEST FORM
(STIC)

Requestor's Name: David Lukton Examiner number: 71263 Date: 10/6/06

Art Unit: 1654 Phone number: 571-272-0952 Serial Number: 09-854816

Mail Box: 3-C-18 Examiner Rm: 3-D-19 Results format: paper

* * * * * *

Title: CONSTRAINED HELICAL PEPTIDES AND METHODS OF MAKING SAME

Applicants: BRAISTED, ANDREW C.; JUDICE, J. KEVIN; MCDOWELL, ROBERT S.; PHELAN, J. CHRISTOPHER; STAROVASNIK, MELISSA A.; WELLS, JAMES A.;

Earliest Priority Date: 11/6/96

* * * *

Applicants are claiming cyclic peptides as shown on the attached sheet.

R^1 = anything;

R^2 = anything;

R^3 = anything;

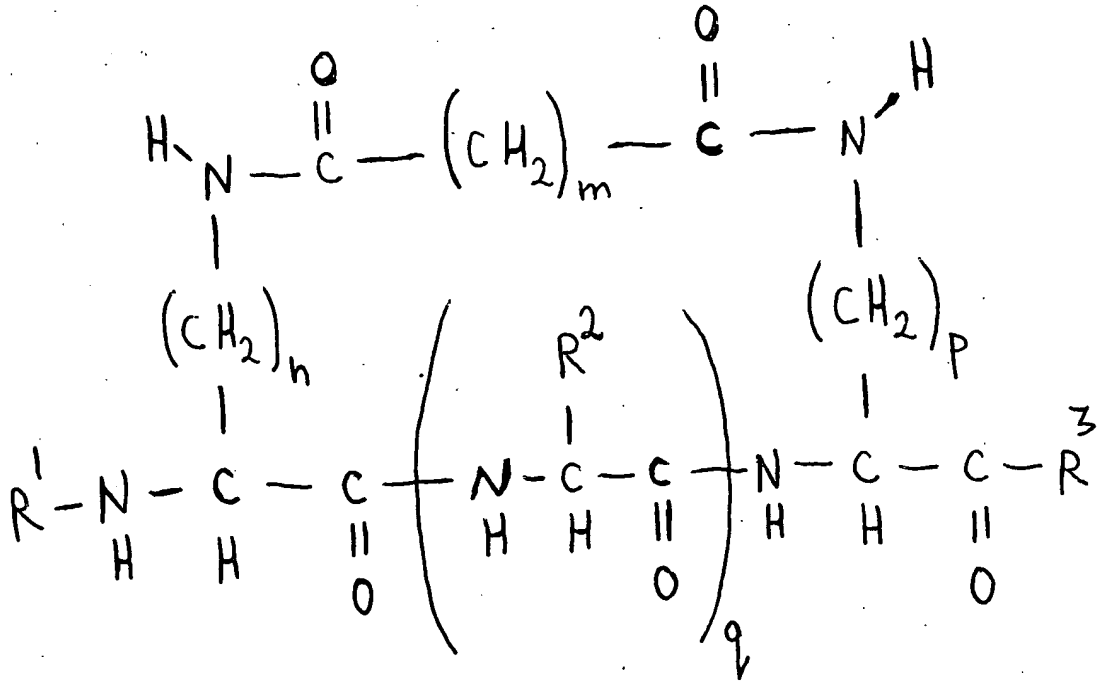
n = an integer of 3 - 4

p = an integer of 3 - 4

m = an integer of 1 - 6

q = an integer of 6 (no more and no less)

09/854816



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DICTIONARY FILE UPDATES:    9 OCT 2006  HIGHEST RN 910025-51-3

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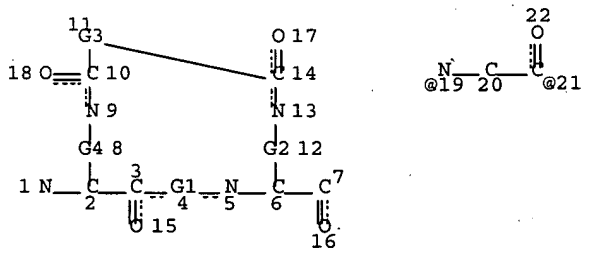


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FILE COVERS 1907 - 10 Oct 2006 VOL 145 ISS 16
FILE LAST UPDATED: 8 Oct 2006 (20061008/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

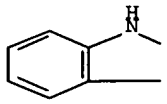
=> d bib abs hitstr retable l14 tot

L14 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:251292 HCAPLUS Full-text
DN 137:211058
TI Exploration of the DTrp-NMeLys Motif in the Search for potent somatostatin antagonists
AU Rajeswaran, W. G.; Murphy, William A.; Taylor, John E.; Coy, David H.
CS Department of Medicine, SL 53, Peptide Research Labs, Tulane University Health Sciences Center, New Orleans, LA, 70112, USA
SO Bioorganic & Medicinal Chemistry (2002), 10(6), 2023-2029
CODEN: BMECEP; ISSN: 0968-0896
PB Elsevier Science Ltd.
DT Journal
LA English
AB Previous studies from this laboratory demonstrated that N-methylation at Lys5 residue in somatostatin octapeptide antagonist analogs increased the GH release inhibition potency by as much as 300%. The authors have now further investigated N-methylation of this Lys5 residue in conjunction with a number of N- and C-terminal modifications previously found to give highly potent somatostatin receptor antagonists. Synthetic analogs were tested in a functional assay for their ability to inhibit somatostatin-inhibited GH release from rat pituitary cells in culture and to displace 125I-labeled somatostatin from CHO cells transfected with the five known human somatostatin receptors. Several interesting observations resulted from the study. Replacement of lipophilic Nal8 at the C-terminus with a hydrophilic His8 resulted in the increased affinity and selectivity for type 2 receptor to give the most potent antagonist analog yet discovered (Ki, 1.5 nM), although in the rat pituitary cells inhibitory activity on somatostatin inhibited GH release decreased somewhat. A His3 substitution within the cyclic portion of the analogs retained pituitary cell potency and affinity for type 2 receptor as did substitution with Bip8 and Fpa1. Replacement of Cpa1 with Iph1 did not effect the affinity for type 2 receptor significantly, but did decrease the effects on rat cell GH release. Iph3 within-ring substitution increased the selectivity for sst2 appreciably although the affinity for that receptor was considerably decreased. Substitution of Npa3 resulted in good selectivity for sst2 receptor. Replacement of Nal8 with D-Trp8 also increased the selectivity for type 2 receptor. Use of a 'bivalent ligand' approach in which two peptides were joined by 4,4'-biphenyldicarbonyl as a spacer destroyed the affinity for all the subtypes, however, the bivalent ligand formed with the Ahp spacer displayed significant affinity and high selectivity for the type 2 receptor.
IT **455333-34-3P**
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(exploration of DTrp-NMeLys motif in search for potent human somatostatin receptor antagonists)
RN 455333-34-3 HCAPLUS
CN L-Alaninamide, 3-[(3-carboxy-1-oxopropyl)amino]-L-alanyl-D-cysteinyl-L-tyrosyl-D-tryptophyl-N2-methyl-L-lysyl-L-threonyl-L-cysteinyl-3-amino-,

(1→8)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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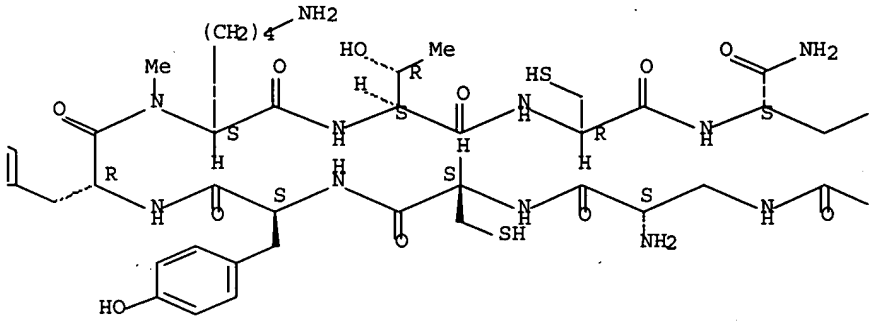

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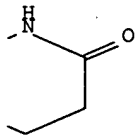

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Ali, F	1994	37	769	J Med Chem	HCAPLUS
Anon	1972	27	201	Eur J Biochem	
Bass, R	1997	51	170	Mol Pharmacol	HCAPLUS
Bauer, W	1982	31	1133	Life Sci	HCAPLUS
Brazeau, P	1973	179	77	Science	HCAPLUS
Bruno, J	1992	89	11151	Proc Nat Acad Sci US	HCAPLUS
Coy, D	1996	34	21	Metabolism	
Epelbaum, J	1986	27	63	Prog Neurobiol	HCAPLUS
Hoyer, D	1995	16	86	Trends Pharmacol Sci	HCAPLUS
Mammen, M	1998	37	2755	Angew Chem, Int Ed	HCAPLUS
Miller, S	1997	119	2301	J Am Chem Soc	HCAPLUS
Murphy, W	1989	2	128	Peptide Res	HCAPLUS

Nutt, R	1983	21	66	Int J Pep Protein Re	HCAPLUS
O'Carroll, A	1992	42	939	Mol Pharmacol	HCAPLUS
O'Carroll, A	1994	46	291	Mol Pharmacol	HCAPLUS
Portoghese, P	2001	44	2259	J Med Chem	HCAPLUS
Rajeswaran, W	2001	44	1305	J Med Chem	HCAPLUS
Raynor, K	1993	43	838	Mol Pharmacol	HCAPLUS
Reisine, T	1995	16	427	Endocrine Rev	HCAPLUS
Reisine, T	1995	67	777	Neuroscience	HCAPLUS
Rohrer, L	1993	90	4196	Proc Natl Acad Sci U	HCAPLUS
Rohrer, S	1998	282	737	Science	HCAPLUS
Rossowski, W	1998	125	1081	Br J Pharmacol	HCAPLUS
Schmidt, R	1995	46	47	Int J Pept Protein R	HCAPLUS
Veber, D	1979	280	512	Nature	HCAPLUS
Veber, D	1992		3	Proceedings of the T	HCAPLUS
Woltering, E	1999	53	201	J Pept Res	HCAPLUS
Yamada, Y	1992	42	2136	Mol Pharmacol	
Yamada, Y	1992	89	251	Proc Natl Acad Sci U	HCAPLUS
Yasuda, K	1992	267	20422	J Biol Chem	HCAPLUS

L14 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:573536 HCAPLUS Full-text
DN 135:122757
TI Preparation of constrained helical peptides
IN Braisted, Andrew C.; Judice, J. Kevin; Mcdowell, Robert S.; Phelan, J. Christopher; Starovasnik, Melissa A.; Wells, James A.
PA Genentech, Inc., USA
SO U.S., 175 pp., Cont.-in-part of U.S. Ser. No. 876,698, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 149

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US2002132253	A1	20020919	2001US-0991163	20011114
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US---6956108	B2	20051018		
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	1998US-088033P	P	19980604		
	1998US-088326P	P	19980604		
	1998US-088167P	P	19980605		
	1998US-088202P	P	19980605		
	1998US-088212P	P	19980605		
	1998US-088217P	P	19980605		
	1998US-088655P	P	19980609		
	1998US-088734P	P	19980610		
	1998US-088738P	P	19980610		
	1998US-088742P	P	19980610		
	1998US-088810P	P	19980610		
	1998US-088824P	P	19980610		
	1998US-088826P	P	19980610		
	1998US-088858P	P	19980611		
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	1998US-088876P	P	19980611		
	1998US-089105P	P	19980612		
	1998US-089440P	P	19980616		
	1998US-089512P	P	19980616		
	1998US-089947P	P	19980619		
	1998US-090676P	P	19980625		
	1998US-091982P	P	19980707		
	1998US-094651P	A1	19980730		
	1998US-097022P	P	19980818		
	1998US-097974P	P	19980826		
	1998AU-0093881	A3	19980914		
	1998AU-0093178	A3	19981002		
	1998US-105169P	P	19981022		
	1998US-063561P	P	19981028		
	1998US-0216021	B1	19981216		
	1998US-0218517	B1	19981222		

1999US-0254311	A1	19990303
1999AU-0030721	A3	19990308
1999US-131293P	P	19990427
1999US-149395P	P	19990817
1999US-0380139	A1	19990825
1999US-151689P	P	19990831
1999US-0920594	A	19990908
1999US-0921090	A	19990915
1999CA-2344465	A3	19991005
2000AU-0017482	A3	19991130
2000AU-0017499	A3	19991202
1999EP-0960644	A3	19991202
1999US-0099309	A	19991220
2000US-0441400	A	20000222
2000WO-US06471	W	20000309
2000US-198121P	P	20000418
2000US-198585P	P	20000418
2000US-199397P	P	20000425
2000US-199550P	P	20000425
2000US-201516P	P	20000503
2000US-204675P	P	20000517
2000US-227133P	P	20000822
2000CA-2380355	A3	20000824
2000US-232887P	P	20000915
2000US-0690189	A3	20001016
2001US-0816920	B1	20010322
2001WO-US17443	W	20010530
2001EP-0939834	A3	20010601
2004EP-0005726	A3	20010601
2001US-0880457	A	20010612
2001US-0882636	B1	20010614
2001US-0927796	B1	20010809
2001WO-US26626	W	20010823
2001US-0941992	A1	20010828
2001US-0990711	A1	20011114
2001US-0002796	A	20011115
2001WO-US48938	W	20011213
2002US-0052586	A1	20020115
2002WO-US10513	W	20020403
2002US-0123155	A1	20020415
2002US-0127825	A1	20020422
2002US-0127966	B1	20020423
2002US-0141703	A1	20020508
2002US-0145627	A1	20020514
2002US-0145751	A	20020514
2002US-0146793	A1	20020515
2002US-0197703	B1	20020717
2002US-0197708	A1	20020717
2002US-0199666	A1	20020718
2002US-0199464	B1	20020719
2002US-0211858	A1	20020802
2003AU-0261484	A	20031106
2004US-0797366	A1	20040309

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AB Cyclic peptides, e.g., [NHCO(CH2)mCH(NHX)CO-Z-NHCH(COYS)(CH2)pCONH](CH2)n [(CH2)n is attached to NH end groups, S is absent or is a macromol., X is H or is any amino acid or amino acid sequence, Y is absent or is hydroxyl if S is absent or is any amino acid or amino acid sequence, Z is any amino acid sequence consisting of six amino acids, m and p are 0-6, n is an integer greater than zero], with constrained region(s) having an α-helical conformation, were prepared Constrained helical peptides having amino acid sequences from HIV gp41 are provided, as is their use in preparing antibodies that prevent viral membrane fusion. Thus, cyclic peptide FNM(5)QQRRFY(6)ALH (5 and 6 represent glutamic acid residues cyclized via 1,5-pentanediamine) was prepared by standard solid phase protocols.

IT **137363-78-1P 185335-95-9P**

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

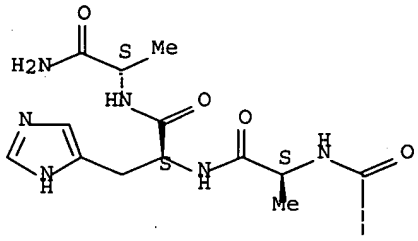
(preparation of constrained helical peptides)

RN 137363-78-1 HCAPLUS

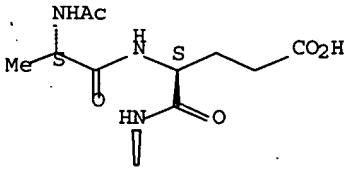
CN L-Alaninamide, N-acetyl-L-alanyl-L-α-glutamyl-6-mercapto-D-norleucyl-L-alanyl-L-alanyl-L-alanyl-L-lysyl-L-phenylalanyl-L-leucyl-6-mercapto-L-norleucyl-L-alanyl-L-histidyl-, cyclic (3→10)-disulfide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



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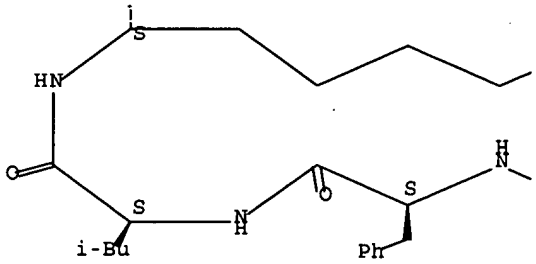

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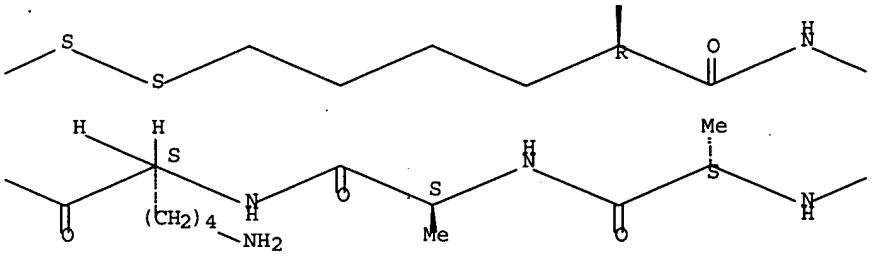

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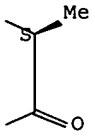

RN 185335-95-9 HCAPLUS

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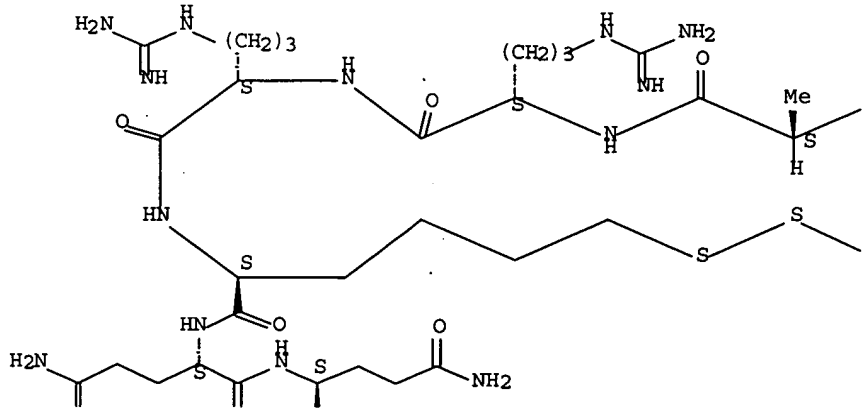
Absolute stereochemistry.

PAGE 1-A



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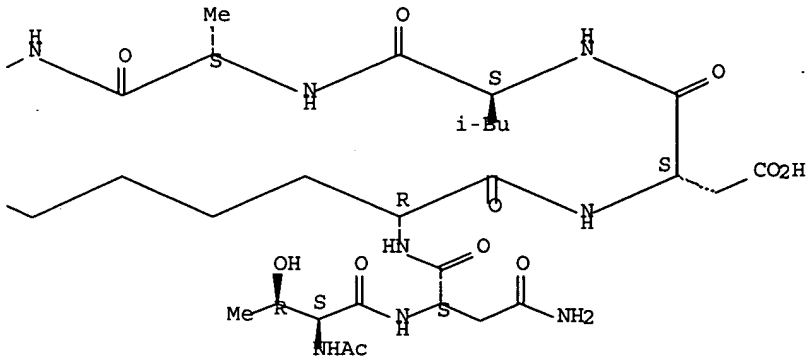

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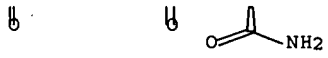

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Akke	1991		401	Techniques in Protei	HCAPLUS
Anon	1989			WO---8901943	HCAPLUS
Anon	1991			WO---9115238	HCAPLUS
Anon	1991			WO---9115512	HCAPLUS
Anon	1992			WO---9209625	HCAPLUS
Anon	1994			WO---9402505	HCAPLUS
Anon	1994			WO---9403494	HCAPLUS
Anon	1994			WO---9416109	HCAPLUS
Anon	1994			WO---9429332	HCAPLUS
Anon	1995			WO---9531480	HCAPLUS
Anon	1995			WO---9534312	HCAPLUS
Anon	1996			WO---9619495	HCAPLUS
Anon	1996			WO---9620953	HCAPLUS
Anon	1996			WO---9640191	HCAPLUS
Anon	1997			WO---9700267	HCAPLUS
Anon	1997			WO---9712988	HCAPLUS
Atherton	1985		165	J Chem Soc, Chem Com	HCAPLUS
Aue	1976	64	2229	J Chem Phys	HCAPLUS
Bax	1985	65	355	J Magn Reson	HCAPLUS
Berman	1992	66	4464	Journal of Virology	HCAPLUS
Bernstein	1977	112	535	J Mol Biol	HCAPLUS
Blacklow	1995	34	14955	Biochemistry	HCAPLUS
Bodenhausen	1984	58	370	J Magn Reson	HCAPLUS
Bolognesi	1995			US---5464933	HCAPLUS
Bothner-By	1984	106	811	J Am Chem Soc	HCAPLUS
Bracken	1994	116	6431	J Am Chem Soc	HCAPLUS
Braunschweiler	1983	53	521	J Magn Reson	HCAPLUS
Brown	1971	10	470	Biochemistry	HCAPLUS
Bullough	1994	371	37	Nature	HCAPLUS
Callewaert	1968	1	111	FEBS Letters	HCAPLUS
Fahey	1992	88	1	Clin Exp Immunology	HCAPLUS
Fox, J	1994	12	128	Bio/Technology	
Ivanoff	1992			US---5141867	HCAPLUS
Jeffrey, L	1994	12	28	Bio/Technology	
Kahn	1995			US---5440013	HCAPLUS

Ohaski	1996			US---5508382	HCAPLUS
Stein	1993	17	749	CID	MEDLINE
Stein	1993	17	749	Clinical Infectious	MEDLINE

L14 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:323270 HCAPLUS Full-text
DN 129:16388
TI Preparation of constrained helical peptides
IN Braisted, Andrew; Judice, J. Kevin; McDowell, Robert S.; Phelan, J. Christopher; Starovasnik, Melissa A.; Wells, James A.
PA Genentech, Inc., USA
SO PCT Int. Appl., 281 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 149

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO---9820036	A1	19980514	1997WO-US20069	19971105
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CA---2270869	AA	19980514	1997CA-2270869	19971105
AU---9854287	A1	19980529	1998AU-0054287	19971105
AU----745101	B2	20020314		
ZA---9709947	A	19990505	1997ZA-0009947	19971105
EP----938497	A1	19990901	1997EP-0948165	19971105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP2001503064	T2	20010306	1998JP-0521703	19971105
NZ----528704	A	20050225	1999NZ-0528704	19990308
CA---2450824	AA	20000420	1999CA-2450824	19991005
EP---1466977	A1	20041013	2004EP-0007618	19991202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ----523206	A	20041224	2000NZ-0523206	20000211
NZ----523207	A	20041224	2000NZ-0523207	20000211
NZ----517395	A	20040130	2000NZ-0517395	20000309
CA---2481685	AA	20010308	2000CA-2481685	20000824
CA---2481691	AA	20010308	2000CA-2481691	20000824
CA---2481731	AA	20010308	2000CA-2481731	20000824
CA---2481756	AA	20010308	2000CA-2481756	20000824
CA---2481788	AA	20010308	2000CA-2481788	20000824
US2002058309	A1	20020516	2001US-0866028	20010525
US---6642360	B2	20031104		
CA---2419541	AA	20020228	2001CA-2419541	20010530
JP2004520811	T2	20040715	2002JP-0522282	20010530
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EP---1657251	A3	20060524		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, AL, TR				
AU----758921	B2	20030403	2001AU-0057764	20010801
AU----759004	B2	20030403	2001AU-0057765	20010801
CA---2420193	AA	20020228	2001CA-2420193	20010823
JP2004520810	T2	20040715	2002JP-0522275	20010823
US2003073129	A1	20030417	2001US-0946374	20010904
US2003207803	A1	20031106	2001US-0143026	20011019
US2003170254	A1	20030911	2001US-0017191	20011024
US2003199021	A1	20031023	2001US-0013924	20011025
US2003008297	A1	20030109	2001US-0997653	20011115
US---7034122	B2	20060425		
US2003049681	A1	20030313	2001US-0997514	20011115

US---7019116	B2	20060328		
US2003049682	A1	20030313	2001US-0997573	20011115
US2003049638	A1	20030313	2001US-0991157	20011116
US---7101687	B2	20060905		
US2003050457	A1	20030313	2001US-0991172	20011116
US2002072496	A1	20020613	2001US-0989279	20011119
US---7083978	B2	20060801		
US2002072067	A1	20020613	2001US-0989722	20011119
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US2002072497	A1	20020613	2001US-0989727	20011119
US2003130182	A1	20030710	2001US-0989862	20011119
EP---1397383	A2	20040317	2001EP-0990229	20011213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AU----772759	B2	20040506	2002AU-0014767	20020201
AU----772723	B2	20040506	2002AU-0014769	20020201
AU----772734	B2	20040506	2002AU-0014771	20020201
AU----778585	B2	20041209	2002AU-0014753	20020201
CA---2449602	AA	20021219	2002CA-2449602	20020403
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EP---1402260	A2	20040331	2002EP-0731246	20020403
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JP2005500030	T2	20050106	2003JP-0503819	20020403
US2003148438	A1	20030807	2002US-0145821	20020514
US2003170788	A1	20030911	2002US-0145634	20020514
US2003166084	A1	20030904	2002US-0146793	20020515
US2003134380	A1	20030717	2002US-0147509	20020516
US2004214269	A1	20041028	2002US-0147518	20020516
US2003180875	A1	20030925	2002US-0147505	20020517
US2003199027	A1	20031023	2002US-0152396	20020520
US2005074837	A1	20050407	2002US-0158788	20020530
US2003068695	A1	20030410	2002US-0192012	20020709
US2003068696	A1	20030410	2002US-0192014	20020709
US2003049743	A1	20030313	2002US-0194394	20020711
US2003049745	A1	20030313	2002US-0194485	20020711
US2003064446	A1	20030403	2002US-0194460	20020711
US2003153037	A1	20030814	2002US-0194457	20020711
US2003059879	A1	20030327	2002US-0194456	20020712
US2003064448	A1	20030403	2002US-0194484	20020712
US2003049747	A1	20030313	2002US-0195899	20020715
US2003064449	A1	20030403	2002US-0195884	20020715
US2003063112	A1	20030403	2002US-0195896	20020715
US2003068705	A1	20030410	2002US-0195886	20020715
US2003068706	A1	20030410	2002US-0195891	20020715
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US2003065159	A1	20030403	2002US-0196757	20020716
US2003068710	A1	20030410	2002US-0196761	20020716
US2003104547	A1	20030605	2002US-0197701	20020717
US2003104548	A1	20030605	2002US-0197706	20020717
US2003207398	A1	20031106	2002US-0198759	20020718
US2003215910	A1	20031120	2002US-0199463	20020718
US2003180881	A1	20030925	2002US-0202475	20020723
US2003064462	A1	20030403	2002US-0206919	20020726
US2003064463	A1	20030403	2002US-0206922	20020726

	US2003068756	A1	20030410	2002US-0206912	20020726
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	US2003068774	A1	20030410	2002US-0208026	20020729
	US2003073184	A1	20030417	2002US-0207923	20020729
	US2003073185	A1	20030417	2002US-0207924	20020729
	US2003215912	A1	20031120	2002US-0207915	20020729
	US2004048335	A1	20040311	2002US-0208024	20020729
	US2003120056	A1	20030626	2002US-0289498	20021105
	US2003144498	A1	20030731	2002US-0289527	20021105
	US2004249141	A1	20041209	2002US-0289490	20021105
	US2003224984	A1	20031204	2002US-0305654	20021126
	US2003199044	A1	20031023	2003US-0410552	20030408
	AU2003248191	A1	20031106	2003AU-0248191	20030919
	AU2003257515	A1	20031120	2003AU-0257515	20031023
	AU2003259607	A1	20031127	2003AU-0259607	20031031
	US2004258710	A1	20041223	2004US-0791618	20040302
	US2005019823	A1	20050127	2004US-0931886	20040831
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	US2005153348	A1	20050714	2004US-0020604	20041221
	US2005176041	A1	20050811	2004US-0026279	20041230
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	US2005164266	A1	20050728	2005US-0036582	20050113
	US2005170396	A1	20050804	2005US-0036869	20050114
	US2005202475	A1	20050915	2005US-0038328	20050118
	US2005176046	A1	20050811	2005US-0046650	20050128
	US2005170458	A1	20050804	2005US-0050154	20050202
	US2005176104	A1	20050811	2005US-0052503	20050204
	US2005136515	A1	20050623	2005US-0056802	20050211
	US2005136475	A1	20050623	2005US-0060652	20050216
	US2005158830	A1	20050721	2005US-0080062	20050314
	US2005196840	A1	20050908	2005US-0100159	20050405
	US2005214846	A1	20050929	2005US-0117757	20050427
	AU2005205752	A1	20050922	2005AU-0205752	20050831
	AU2005205754	A1	20050922	2005AU-0205754	20050831
	AU2005205755	A1	20050922	2005AU-0205755	20050831
	AU2005205758	A1	20050922	2005AU-0205758	20050831
PRAI	1996US-0743698	A	19961106		
	1997US-0876698	A	19970616		
	1997US-049787P	P	19970616		
	1997US-062250P	P	19971017		
	1997US-063564P	P	19971028		
	1997US-063870P	P	19971031		
	1997WO-US20069	W	19971105		
	1997US-065186P	P	19971112		
	1997US-065311P	P	19971113		
	1997US-066770P	P	19971124		
	1998US-075945P	P	19980225		
	1998US-078910P	P	19980320		
	1998US-082704P	P	19980422		
	1998US-083322P	P	19980428		
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1999WO-US00106	A	19990105
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2003AU-0261484	A	20031106
2004US-0797366	A1	20040309

AB Cyclic peptides, e.g., [NHCO(CH2)mCH(NHX)CO-Z-NHCH(COYS)(CH2)pCONH](CH2)n [(CH2)n is attached to NH end groups, S is absent or is a macromol., X is H or is any amino acid or amino acid sequence, Y is absent or is hydroxyl if S is absent or is any amino acid or amino acid sequence, Z is any amino acid sequence consisting of six amino acids, m and p are 0-6, n is an integer greater than zero], with constrained region(s) having an α-helical conformation, were prepared Constrained helical peptides having amino acid sequences from HIV gp41 are provided, as is their use in preparing antibodies that prevent viral membrane fusion. Thus, cyclic peptide FNM(5)QQRRFY(6)ALH (5 and 6 represent glutamic acid residues cyclized via 1,5-pentanediamine) was prepared by standard solid phase protocols.

IT **137363-78-1P 185335-95-9P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of constrained helical peptides)

RN 137363-78-1 HCAPLUS

CN L-Alaninamide, N-acetyl-L-alanyl-L-α-glutamyl-6-mercapto-D-norleucyl-L-alanyl-L-alanyl-L-alanyl-L-lysyl-L-phenylalanyl-L-leucyl-6-mercapto-L-norleucyl-L-alanyl-L-histidyl-, cyclic (3→10)-disulfide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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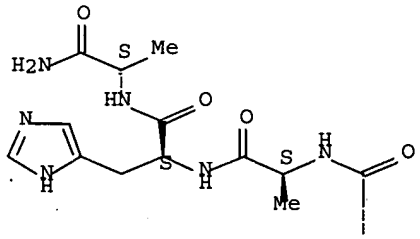

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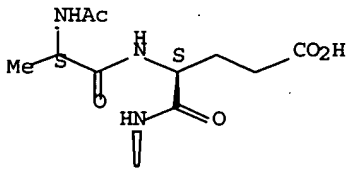

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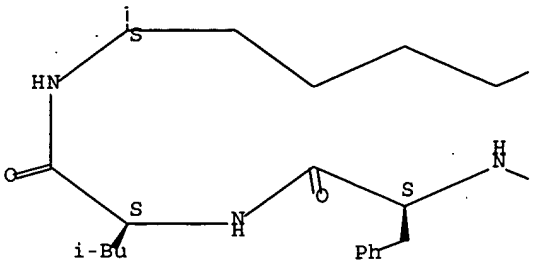

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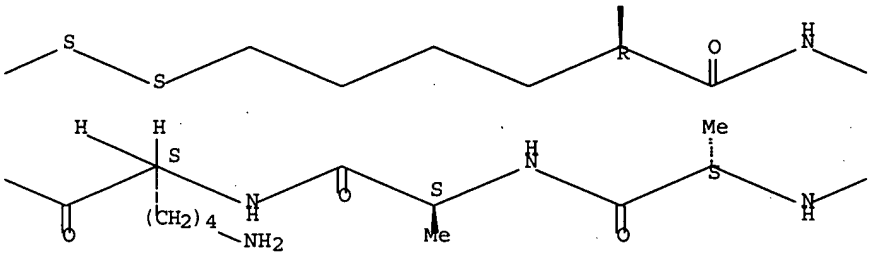

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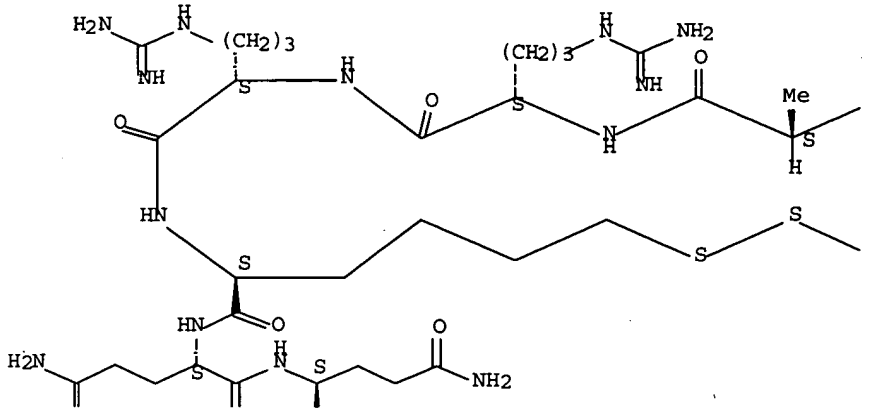
RN 185335-95-9 HCAPLUS

CN L-Glutamamide, N-acetyl-L-threonyl-L-asparaginyl-6-mercapto-D-norleucyl-L-α-aspartyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-arginyl-6-mercapto-L-norleucyl-L-glutaminyl-, cyclic (3→10)-disulfide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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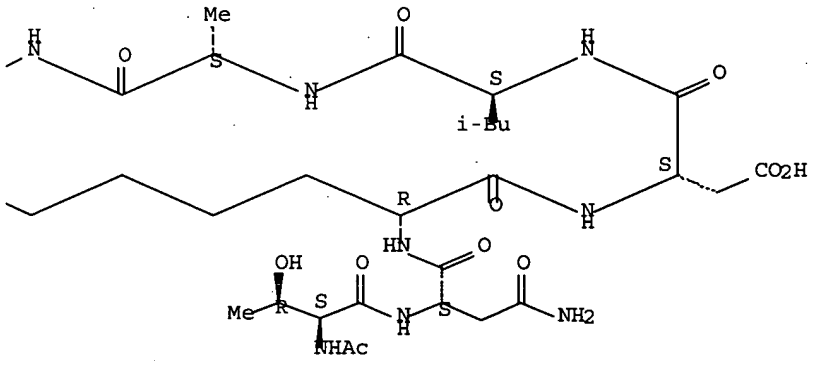

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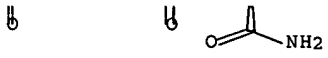

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Lawless, M	1996	35	13697	BIOCHEMISTRY	HCAPLUS
Phelan, J	1997	119	455	JOURNAL OF THE AMERI	HCAPLUS
Smithkline Beecham Corp	1992			WO---9209625 A	HCAPLUS
Univ Pennsylvania	1995			WO---9534312 A	HCAPLUS
Zhang, X	1997	15	150	NATURE BIOTECHNOLOGY	HCAPLUS

L14 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:80130 HCAPLUS Full-text
DN 126:75230
TI A General Method for Constraining Short Peptides to an α-Helical Conformation
AU Phelan, J. Christopher; Skelton, Nicholas J.; Braisted, Andrew C.;

McDowell, Robert S.
CS Department of Bioorganic Chemistry and Department of Protein Engineering, Genentech Inc., South San Francisco, CA, 94080, USA
SO Journal of the American Chemical Society (1997), 119(3), 455-460
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
AB A method for constraining short peptides (containing fewer than 20 residues) of an arbitrary sequence to an α-helical conformation (.apprx.100% helical in H2O at 25 °C) is presented. Gln residues at positions i and i + 7 of the peptides were tethered with an alkanediyl chain between the side chain nitrogen atoms. Peptides containing this tether were readily synthesized on the solid phase by amide formation between an α,ω-diaminoalkane and the side chain carboxylates of Glu residues. The resulting cyclic peptides were studied by NMR and CD and were found to adopt an α-helical conformation in aqueous solution and this α-helix was thermally stable to ≥40°. Corresponding untethered control peptides with N-methylglutamine at the i and i + 7 positions lacked helicity under the same conditions.
IT **137363-78-1P 185335-95-9P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of short peptides constrained to an α-helical conformation)
RN 137363-78-1 HCAPLUS
CN L-Alaninamide, N-acetyl-L-alanyl-L-α-glutamyl-6-mercapto-D-norleucyl-L-alanyl-L-alanyl-L-alanyl-L-lysyl-L-phenylalanyl-L-leucyl-6-mercapto-L-norleucyl-L-alanyl-L-histidyl-, cyclic (3→10)-disulfide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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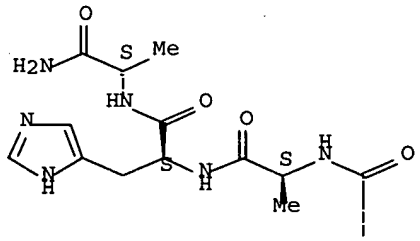

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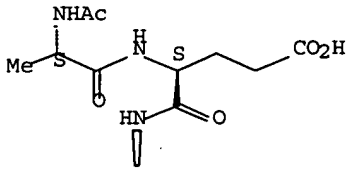

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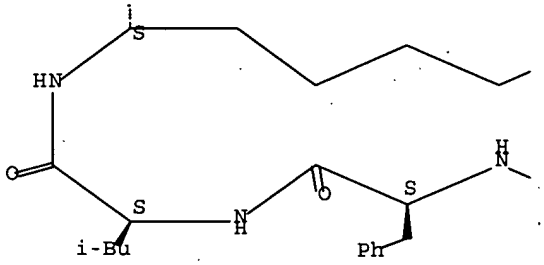

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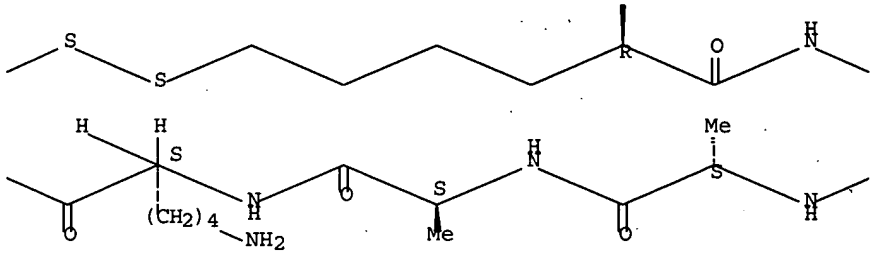

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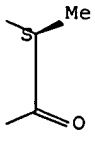

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Absolute stereochemistry.

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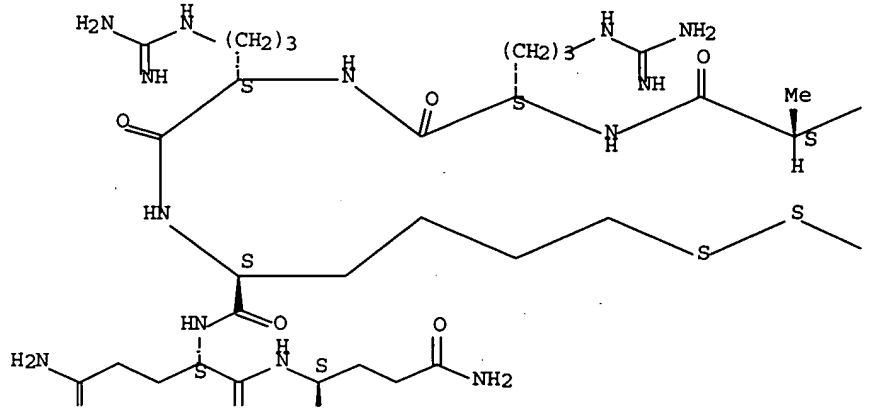

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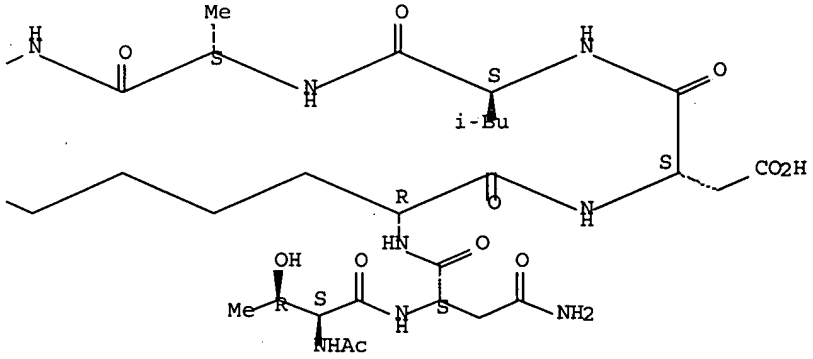

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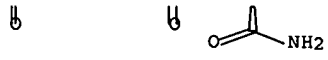

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Albert, J	1995	34	984	J Am Chem Soc	HCAPLUS
Bernstein, F	1977	112	535	J Mol Biol	HCAPLUS
Bierzynski, A	1982	79	2470	Proc Natl Acad Sci U	HCAPLUS
Blaney, J				DGEOM, QCPE No 590	
Bracken, C	1994	116	6431	J Am Chem Soc	HCAPLUS
Brazil, B				Submitted for public	
Brown, J	1971	10	470	Biochemistry	HCAPLUS

Callewaert, G	1968	1	111	FEBS Lett	HCAPLUS
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Chorev, M	1991	30	5968	Biochemistry	HCAPLUS
Danho, W	1995			Fourteenth American	
Fairman, R	1992	114	5458	J Am Chem Soc	HCAPLUS
Fezoui, Y	1994	91	3675	Proc Natl Acad Sci U	HCAPLUS
Finkelstein, A	1991	10	287	Proteins:Struct, Fun	MEDLINE
Forood, B	1993	90	838	Proc Natl Acad Sci U	HCAPLUS
Ghadiri, M	1990	112	1630	J Am Chem Soc	HCAPLUS
Ghadiri, M	1990	112	9633	J Am Chem Soc	HCAPLUS
Habermann, E	1965	343	192	Biochem Z	HCAPLUS
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Ho, S	1987	109	6751	J Am Chem Soc	HCAPLUS
Houston, M	1995			Fourteenth American	
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Huyghues-Despointes, B	1992	31	1476	Biochemistry	HCAPLUS
Jackson, D	1991	113	9391	J Am Chem Soc	HCAPLUS
Kemp, D	1991	56	6672	J Org Chem	HCAPLUS
Kemp, D	1991	56	6683	J Org Chem	HCAPLUS
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Lieberman, M	1991		332	Pept:Chem Biol, Proc	
Lyu, P	1993	32	421	Biochemistry	HCAPLUS
Marqusee, S	1989	86	5286	Proc Natl Acad Sci U	HCAPLUS
Osapay, G	1990	112	6046	J Am Chem Soc	HCAPLUS
Osapay, G	1990	114	6966	J Am Chem Soc	
Ravi, A	1983	105	105	J Am Chem Soc	HCAPLUS
Ruan, F	1990	112	9403	J Am Chem Soc	HCAPLUS
Schollkpf, U	1981	20	798	Angew Chem, Int Ed E	
Scholtz, J	1993	32	9668	Biochemistry	HCAPLUS
Shipolini, R	1967		679	Chem Commun	HCAPLUS
Shipolini, R	1967	14	679	Chem Commun	
Shoemaker, K	1987	326	563	Nature	HCAPLUS
Skelton, N				Unpublished observat	
Todd, R	1991	10	156	Proteins:Struct, Fun	HCAPLUS
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Zhou, H	1994	116	1139	J Am Chem Soc	HCAPLUS

L14 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1991:680537 HCAPLUS Full-text
DN 115:280537
TI General approach to the synthesis of short α-helical peptides
AU Jackson, David Y.; King, David S.; Chmielewski, Jean; Singh, Sunil; Schultz, Peter G.
CS Dep. Chem., Univ. California, Berkeley, CA, 94720, USA
SO Journal of the American Chemical Society (1991), 113(24), 9391-2
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA English
OS CASREACT 115:280537
AB Short peptides have been synthesized which contain a single intramol. disulfide bond that stabilizes two helical turns. Peptides containing D- and L-S-(acetamidomethyl)-2-amino-6-mercaptohexanoic acid at the i and i + 7 residue, resp., show only slight α-helicity in the reduced form in aqueous solution On oxidation, these peptides exhibit a large increase in α-helicity in water both at 0° and 60°. This approach has been used to generate eight and sixteen amino acid peptides with high helicity. Oxidation can be carried out under a wide variety of conditions with peptides that contain a large variety of functional groups.
IT **137363-78-1P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and conformation of)
RN 137363-78-1 HCAPLUS
CN L-Alaninamide, N-acetyl-L-alanyl-L-α-glutamyl-6-mercapto-D-norleucyl-L-alanyl-L-alanyl-L-alanyl-L-lysyl-L-phenylalanyl-L-leucyl-6-mercapto-L-

norleucyl-L-alanyl-L-histidyl-, cyclic (3→10)-disulfide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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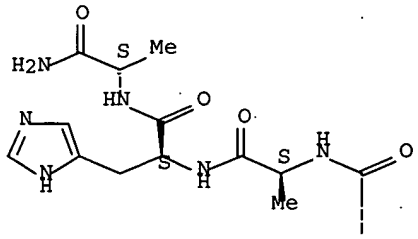

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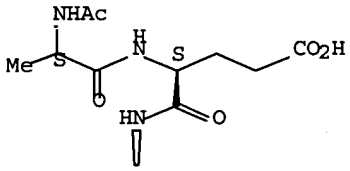

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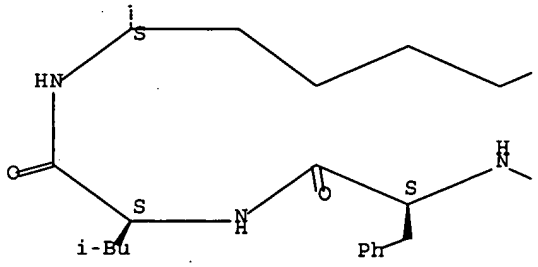

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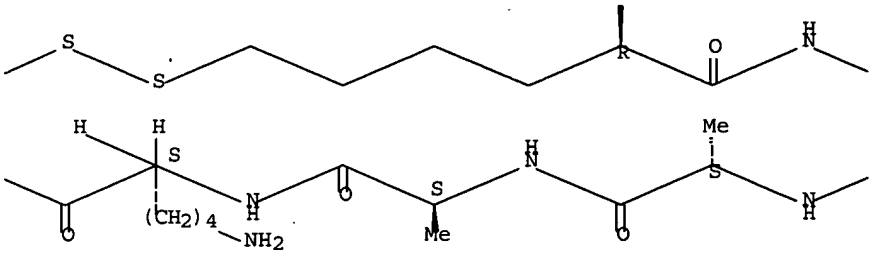

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        Gao, Wei-Qiang, Palo Alto, CA, UNITED STATES
        Goddard, Audrey, San Francisco, CA, UNITED STATES
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        Pan, James, Belmont, CA, UNITED STATES
        Roy, Margaret Ann, San Francisco, CA, UNITED STATES
        Stewart, Timothy A., San Francisco, CA, UNITED STATES
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PA      GENENTECH, INC. (U.S. corporation)
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        Continuation of Ser. No. 2000WO-US15264, filed on 2 Jun 2000, UNKNOWN
        Continuation of Ser. No. 2000WO-US32678, filed on 1 Dec 2000, UNKNOWN
DT      Utility
FS      APPLICATION
LREP    KNOBBE, MARTENS, OLSON AND BEAR, LLP, 2040 MAIN STREET, FOURTEENTH
        FLOOR, IRVINE, CA, 92614
CLMN    Number of Claims: 21
ECL     Exemplary Claim: 1
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DRWN 18 Drawing Page(s)
LN.CNT 7716
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

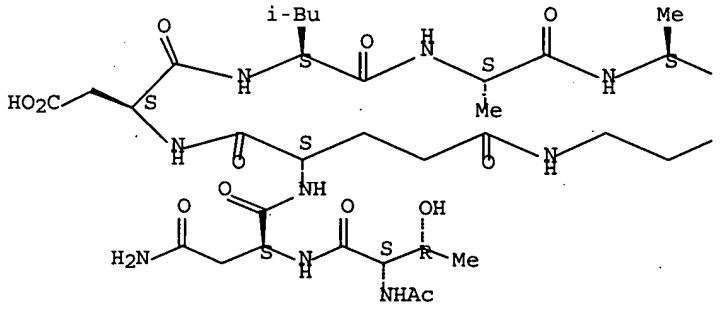
IT **185335-87-9P**
(preparation of constrained helical peptides)

RN 185335-87-9 USPATFULL

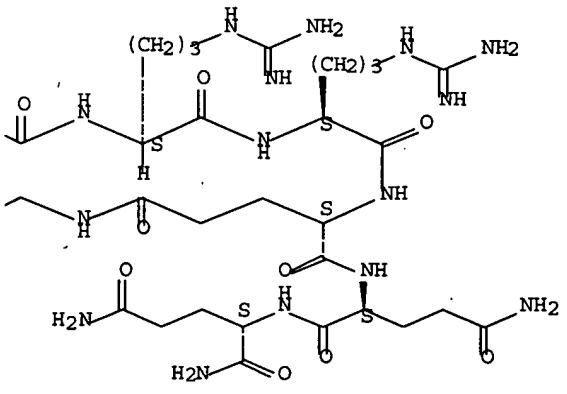
CN L-Glutamamide, N-acetyl-L-threonyl-L-asparaginyl-N-(3-aminopropyl)-L-glutaminyl-L-α-aspartyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-arginyl-L-α-glutamyl-L-glutaminyl-, (10→3)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



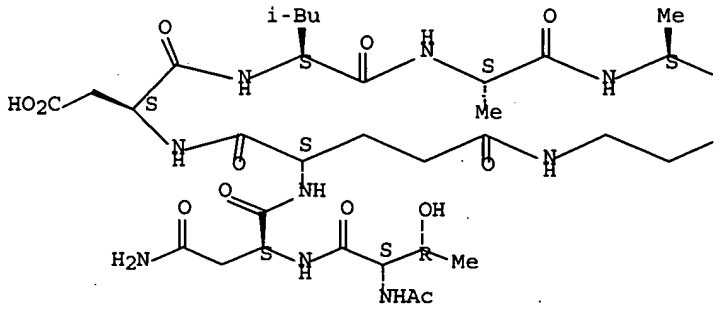
IT **185335-87-9P 185335-88-0P 185335-89-1P 185335-91-5P 185335-92-6P 185335-93-7P 207676-47-9P**
(preparation of constrained helical peptides)

L16 ANSWER 2 OF 2 USPATFULL on STN
AN 2001:125963 USPATFULL Full-text
TI Constrained helical peptides and methods of making same
IN Braisted, Andrew C., San Francisco, CA, United States
Judice, J. Kevin, San Francisco, CA, United States
McDowell, Robert S., San Francisco, CA, United States
Phelan, J. Christopher, San Francisco, CA, United States
Starovasnik, Melissa A., Burlingame, CA, United States
Wells, James A., Burlingame, CA, United States
PA Genentech, Inc., South San Francisco, CA, United States (U.S. corporation)
PI US---6271198 B1 20010807
AI 1997US-0965056 19971105 (8)
RLI Continuation-in-part of Ser. No. 1997US-0876698, filed on 16 Jun 1997, now abandoned , said Ser. No. US 965056 And Ser. No. 1996US-0743698, filed on 6 Nov 1996
PRAI 1997US-049787P 19970616 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Jones, Dwayne C.; Assistant Examiner: Delacroix-Muirheid, C.
LREP Piper Marbury Rudnick & Wolfe LLP, Kelber, Steven B.
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 40 Drawing Figure(s); 34 Drawing Page(s)
LN.CNT 6260
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Provided are cyclized peptides with a constrained region(s) having an α-helical conformation. Constrained helical peptides having amino acid sequences from HIV gp41 are provided, as is their use in preparing antibodies that prevent viral membrane fusion. Also provided are methods for making such cyclized peptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **185335-87-9P**
(preparation of constrained helical peptides)
RN 185335-87-9 USPATFULL
CN L-Glutamamide, N-acetyl-L-threonyl-L-asparaginyl-N-(3-aminopropyl)-L-glutaminyl-L-α-aspartyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-arginyl-L-α-glutamyl-L-glutaminyl-, (10→3)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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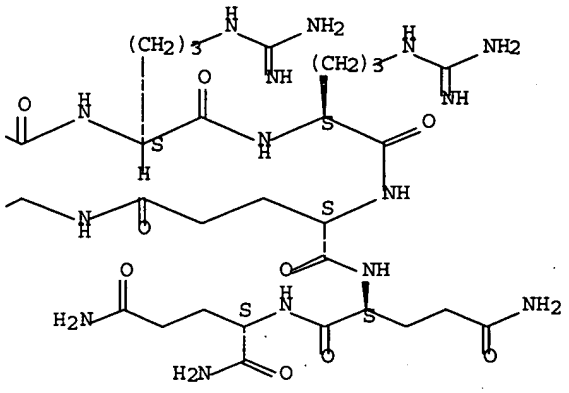

IT 185335-87-9P 185335-88-0P 185335-89-1P
185335-91-5P 185335-92-6P 185335-93-7P
207676-47-9P
(preparation of constrained helical peptides)

=> d his

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L16 2 L6,L10

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